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1 Sequent calculi for propositional nonmonotonic logics

Piero Andrea Bonatti, Nicola Olivetti

April 2002 **ACM Transactions on Computational Logic (TOCL)**, Volume 3 Issue 2

Full text available: pdf(447.49 KB) Additional Information: full citation, abstract, references, index terms

A uniform proof-theoretic reconstruction of the major nonmonotonic logics is introduced. It consists of analytic sequent calculi where the details of nonmonotonic assumption making are modelled by an axiomatic rejection method. Another distinctive feature of the calculi is the use of provability constraints that make reasoning largely independent of any specific derivation strategy. The resulting account of nonmonotonic inference is simple and flexible enough to be a promising playground for inv ...

Keywords: Autoepistemic Logic, Circumscription, Default Logic, Rejection methods, Sequent calculi

2 Copy detection mechanisms for digital documents

Sergey Brin, James Davis, Héctor García-Molina

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms

In a digital library system, documents are available in digital form and therefore are more easily copied and their copyrights are more easily violated. This is a very serious problem, as it discourages owners of valuable information from sharing it with authorized users. There are two main philosophies for addressing this problem: prevention and detection. The former actually makes unauthorized use of documents difficult or impossible while the latter makes it easier to discover such activity.I ...

3 Computers in the study of learning: namer—A pattern-recognition system for generating sentences about relations between line drawings

M. Kochen, D. L. Londe, R. F. Simmons

August 1965 **Proceedings of the 1965 20th national conference**

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

THIS PAPER reports on a series of experimental programs which are used to recognize line drawings and the spatial relationships between them. At the pattern-recognition level the programs learn to associate a name with a generalized bit pattern representing a line drawing. At the relation-learning level, the programs abstract characteristics which relate to such spatial concepts as "above," "left," "thicker than," etc. The names that have been learned in ...

4 Systems, interactions, and macrotheory



Philip Barnard, Jon May, David Duke, David Duce

June 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 2

Full text available: pdf(1.60 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A significant proportion of early HCI research was guided by one very clear vision: that the existing theory base in psychology and cognitive science could be developed to yield engineering tools for use in the interdisciplinary context of HCI design. While interface technologies and heuristic methods for behavioral evaluation have rapidly advanced in both capability and breadth of application, progress toward deeper theory has been modest, and some now believe it to be unnecessary. A case ...

Keywords: cognitive models, computing system models, models of interaction

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1 Technical reports

SIGACT News Staff

January 1981 **ACM SIGACT News**, Volume 13 Issue 1

Full text available: pdf(1.78 MB) Additional Information: full citation

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

4 Copy detection mechanisms for digital documents

Sergey Brin, James Davis, Héctor García-Molina

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international**

conference on Management of data, Volume 24 Issue 2

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms

In a digital library system, documents are available in digital form and therefore are more easily copied and their copyrights are more easily violated. This is a very serious problem, as it discourages owners of valuable information from sharing it with authorized users. There are two main philosophies for addressing this problem: prevention and detection. The former actually makes unauthorized use of documents difficult or impossible while the latter makes it easier to discover such activity.I ...

5 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

6 Conference abstracts

January 1977 **Proceedings of the 5th annual ACM computer science conference**

Full text available: pdf(3.14 MB) Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

7 Cyc: toward programs with common sense

Douglas B. Lenat, R. V. Guha, Karen Pittman, Dexter Pratt, Mary Shepherd

August 1990 **Communications of the ACM**, Volume 33 Issue 8

Full text available: pdf(3.98 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Cyc is a bold attempt to assemble a massive knowledge base (on the order of 108 axioms) spanning human consensus knowledge. This article examines the need for such an undertaking and reviews the authos' efforts over the past five years to begin its construction. The methodology and history of the project are briefly discussed, followed by a more developed treatment of the current state of the representation language used (epistemological level), techniques for efficient ...

8 Contextual correlates of synonymy

Herbert Rubenstein, John B. Goodenough

October 1965 **Communications of the ACM**, Volume 8 Issue 10

Full text available: pdf(1.08 MB) Additional Information: full citation, references, citings, index terms

9 Learning methods to combine linguistic indicators: improving aspectual classification and revealing linguistic insights

Eric V. Siegel, Kathleen R. McKeown

December 2000 **Computational Linguistics**, Volume 26 Issue 4

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references

Publisher Site

Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications.A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...

10 Granular partitions and vagueness

Thomas Bittner, Barry Smith

October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**

Full text available: pdf(1.93 MB) Additional Information: full citation, abstract, references, index terms

There are some who defend a view of vagueness according to which there are intrinsically vague objects or attributes in reality. Here, in contrast, we defend a view of vagueness as a semantic property of names and predicates. All entities are crisp, on this view, but there are, for each vague name, multiple portions of reality that are equally good candidates for being its referent, and, for each vague predicate, multiple classes of objects that are equally good candidates for being its ...

Keywords: granular partitions, ontology, semantics, vagueness

11 Special issue on word sense disambiguation: Similarity-based word sense disambiguation

Yael Karov, Shimon Edelman

March 1998 **Computational Linguistics**, Volume 24 Issue 1

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

We describe a method for automatic word sense disambiguation using a text corpus and a machine-readble dictionary (MRD). The method is based on word similarity and context similarity measures. Words are considered similar if they appear in similar contexts; contexts are similar if they contain similar words. The circularity of this definition is resolved by an iterative, converging process, in which the system learns from the corpus a set of typical usages for each of the senses of the polysemou ...

12 Knowledge representation for commonsense reasoning with text

Kathleen Dahlgren, Joyce McDowell, Edward P. Stabler

September 1989 **Computational Linguistics**, Volume 15 Issue 3

Full text available: pdf(2.52 MB) Additional Information: full citation, references, citings

Publisher Site

13 KM-2 (knowledge management): clustering II: On combining multiple clusterings
Tao Li, Mitsunori Ogihara, Sheng Ma
November 2004 **Proceedings of the Thirteenth ACM conference on Information and knowledge management**
Full text available: pdf(179.30 KB) Additional Information: full citation, abstract, references, index terms

Many problems can be reduced to the problem of combining multiple clusterings. In this paper, we first summarize different application scenarios of combining multiple clusterings and provide a new perspective of viewing the problem as a categorical clustering problem. We then show the connections between various consensus and clustering criteria and discuss the complexity results of the problem. Finally we propose a new method to determine the final clustering. Experiments on kinship terms an ...

Keywords: categorical, combining, multiple clusterings

14 Improving statistical language model performance with automatically generated word hierarchies
John G. McMahon, Francis J. Smith
June 1996 **Computational Linguistics**, Volume 22 Issue 2
Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

An automatic word-classification system has been designed that uses word unigram and bigram frequency statistics to implement a binary top-down form of word clustering and employs an average class mutual information metric. Words are represented as *structural tags*---n-bit numbers the most significant bit-patterns of which incorporate class information. The classification system has revealed some of the lexical structure of English, as well as some phonemic and semantic structure. The syst ...

15 Towards the automatic identification of adjectival scales: clustering adjectives according to meaning
Vasileios Hatzivassiloglou, Kathleen R. McKeown
June 1993 **Proceedings of the 31st annual meeting on Association for Computational Linguistics**
Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings
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In this paper we present a method to group adjectives according to their meaning, as a first step towards the automatic identification of adjectival scales. We discuss the properties of adjectival scales and of groups of semantically related adjectives and how they imply sources of linguistic knowledge in text corpora. We describe how our system exploits this linguistic knowledge to compute a measure of similarity between two adjectives, using statistical techniques and without having access to ...

16 Cross-lingual C*ST*RD: English access to Hindi information
Anton Leuski, Chin-Yew Lin, Liang Zhou, Ulrich Germann, Franz Josef Och, Eduard Hovy
September 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 3
Full text available: pdf(210.61 KB) Additional Information: full citation, abstract, references, index terms

We present C*ST*RD, a cross-language information delivery system that supports cross-language information retrieval, information space visualization and navigation, machine translation, and text summarization of single documents and clusters of documents.

C*ST*RD was assembled and trained within 1 month, in the context of DARPA's Surprise Language Exercise, that selected as source a heretofore unstudied language, Hindi. Given the brief time, we could not create deep Hindi capabilities for all th ...

Keywords: Cross-language information retrieval, Hindi-to-English machine translation, headline generation, information retrieval and information space navigation, single- and multi-document text summarization

17 Industrial/government track: Clinical and financial outcomes analysis with existing hospital patient records

R. Bharat Rao, Sathyakama Sandilya, Radu Stefan Niculescu, Colin Germond, Harsha Rao

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(188.40 KB) Additional Information: full citation, abstract, references, index terms

Existing patient records are a valuable resource for automated outcomes analysis and knowledge discovery. However, key clinical data in these records is typically recorded in unstructured form as free text and images, and most structured clinical information is poorly organized. Time-consuming interpretation and analysis is required to convert these records into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present REMIND, a Bayesian Framework for Reliable ...

Keywords: Bayes Nets, HMMs, data mining, temporal reasoning

18 Hidden issues in the simulation of fixed wireless systems

Dan Avidor, Sayandev Mukherjee

March 2001 **Wireless Networks**, Volume 7 Issue 2

Full text available: pdf(219.99 KB) Additional Information: full citation, index terms

19 Mining new media: Newsjunkie: providing personalized newsfeeds via analysis of information novelty

Evgeniy Gabrilovich, Susan Dumais, Eric Horvitz

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(152.18 KB) Additional Information: full citation, abstract, references, index terms

We present a principled methodology for filtering news stories by formal measures of information novelty, and show how the techniques can be usedto custom-tailor news feeds based on information that a user has already reviewed. We review methods for analyzing novelty and then describe Newsjunkie, a system that personalizes news for users by identifying the novelty of stories in the context of stories they have already reviewed. Newsjunkie employs novelty-analysis algorithms that represent articl ...

Keywords: news, novelty detection, personalization

20 Special issue on using large corpora: I: Structural ambiguity and lexical relations

Donald Hindle, Mats Rooth

March 1993 **Computational Linguistics**, Volume 19 Issue 1

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, citings Publisher Site

We propose that many ambiguous prepositional phrase attachments can be resolved on the

basis of the relative strength of association of the preposition with verbal and nominal heads, estimated on the basis of distribution in an automatically parsed corpus. This suggests that a distributional approach can provide an approximate solution to parsing problems that, in the worst case, call for complex reasoning.

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